AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) An opening and closing control system for an opening-closing member of a vehicle comprising:

an opening and closing mechanism for opening and closing the openingclosing member relative to the vehicle;

an actuator for operating the opening and closing mechanism;

an electromagnetic clutch for controlling a torque transmission by connecting and disconnecting the actuator and the opening and closing mechanism;

an opening and closing angle detecting means for detecting an opening and a closing angle of the opening-closing member relative to the vehicle; and

a control means for controlling varying an electric power supplied to the electromagnetic clutch after power supply to the electromagnetic clutch is initiated and before power supply to the electromagnetic clutch ceases based on a detected result from the opening and closing angle detecting means and controlling an electric power supplied to the actuator.

2. (Currently Amended) An opening and closing control system for an opening-closing member of a vehicle according to claim 1, wherein a supporting force of the opening and closing mechanism required for supporting the opening-closing member of the vehicle is increased in accordance with the movement of the

opening-closing member of the vehicle from an intermediate position to an opened position or a closed position, and the control means for decreasing decreases the electric power supplied to the electromagnetic clutch in accordance with the movement of the opening-closing member of the vehicle from the intermediate position to the opened position or the closed position.

- 3. (Currently Amended) An opening and closing control system for an opening-closing member of a vehicle according to claim 2, wherein the opening and closing mechanism includes a crank gear provided rotatably around a crank shaft for opening and closing the opening-closing member of the vehicle, a slider reciprocating along with a guide member, a crank arm pivotally connected to the crank gear on one end thereof with a crank pin and pivotally connected to the slider on the other end thereof with a slider pin, and an operating member for the openingclosing member for operatively connecting the slider and the opening-closing member of the vehicle, and wherein a length of a perpendicular line, which vertically connects a center of the crank shaft and an arm line connecting a center of the crank pin and a center of the slider pin, or an extension of the arm line in longitudinal direction, when the opening-closing member of the vehicle is located at the intermediate position, is longer than the length of the perpendicular line when the opening-closing member of the vehicle is located at the opened position and the closed position.
- 4. (Currently Amended) An opening and closing control system for an opening-closing member of a vehicle according to claim 2.3, wherein the opening

and closing mechanism includes the crank gear provided rotatably around the crank shaft for opening and closing the opening closing member of the vehicle, the slider reciprocating along with the guide member, the crank arm pivotally connected to the crank gear on one end thereof with the crank pin and pivotally connected to the slider on the other end thereof with the slider pin, and the operating member for the opening closing member for operatively connecting the slider and the opening-closing member of the vehicle, and wherein the length of the perpendicular line, which vertically connects the center of the crank shaft and the arm line connecting the center of the crank pin and the center of the slider pin, or the extension of the arm line in longitudinal direction, is gradually decreased in accordance with the movement of the opening-closing member of the vehicle from the intermediate position to the opened position or the closed position.

- 5. (Currently Amended) An opening and closing control system for an opening-closing member of a vehicle according to claim 2 3, wherein the opening and closing mechanism includes the crank gear, the slider, the crank arm, and the operating member for the opening-closing member, wherein the crank arm is provided between the crank gear and the slider, and the slider is provided between the crank arm and the opening-closing member of the vehicle.
- 6. (New) An opening and closing control system for an opening-closing member of a vehicle comprising:

an opening and closing mechanism for opening and closing the openingclosing member relative to the vehicle; an actuator for operating the opening and closing mechanism;

an electromagnetic clutch for controlling torque transmission by connecting and disconnecting the actuator and the opening and closing mechanism;

an opening and closing angle detecting means for detecting an opening and a closing angle of the opening-closing member relative to the vehicle; and

a control means for varying electric power supplied to the electromagnetic clutch after the electromagnetic clutch connects the actuator and the opening and closing mechanism and before the electromagnetic clutch disconnects the actuator and the opening and closing mechanism based on a detected result from the opening and closing angle detecting means.

- 7. (New) An opening and closing control system for an opening-closing member of a vehicle according to claim 6, wherein a supporting force of the opening and closing mechanism required for supporting the opening-closing member of the vehicle is increased as the opening-closing member of the vehicle moves from an intermediate position to an opened position or a closed position, and the control means decreases the electric power supplied to the electromagnetic clutch as the opening-closing member of the vehicle moves from the intermediate position to the opened position or the closed position.
- 8. (New) An opening and closing control system for an opening-closing member of a vehicle according to claim 7, wherein the opening and closing mechanism comprises a crank gear rotatably provided around a crank shaft for opening and closing the opening-closing member of the vehicle, a slider movable in

a reciprocating manner along with a guide member, a crank arm pivotally connected to the crank gear on one end thereof with a crank pin and pivotally connected to the slider on the other end thereof with a slider pin, and an operating member operatively connecting the slider and the opening-closing member of the vehicle, and wherein a length of a perpendicular line vertically connecting a center of the crank shaft and an arm line connecting a center of the crank pin and a center of the slider pin, or an extension of the arm line in a longitudinal direction, when the opening-closing member of the vehicle is located at the intermediate position is longer than the length of the perpendicular line when the opening-closing member of the vehicle is located at the opened position and the closed position.

- 9. (New) An opening and closing control system for an opening-closing member of a vehicle according to claim 8, wherein the length of the perpendicular line vertically connecting the center of the crank shaft and the arm line connecting the center of the crank pin and the center of the slider pin, or the extension of the arm line in longitudinal direction, gradually decreases as the opening-closing member of the vehicle moves from the intermediate position to the opened position or the closed position.
- 10. (New) An opening and closing control system for an opening-closing member of a vehicle according to claim 8, wherein the crank arm is provided between the crank gear and the slider, and the slider is provided between the crank arm and the opening-closing member of the vehicle.